Sects. II–27

Health **(1952) Department**

SERIES.

G.O. No.	2051
Dated	27-6-52.

[Despatch Abstract.]

Rules - Sanitary Inspector's course - Rules for admission and syllabus of training. Amended and reissued.

GOVERNMENTOF MADRAS.

ABSTRACT

RULES - Sanitary Inspector's Course - Rules for admission and syllabus of training - Amended and reissued.

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FOOD AND AGRICULTURE/ DEPARTMENT

G.O.Ms.No.2051. Dated 27-6-1952.

READ:

G.O.No.1764, Health, dated 17-5-1950.
From the D.P.H. R.No. 51341-1-E3-50 d/17-10-1950.
" " " 83604-6-A-51, dated 4-12-1951.
" " " 59316-1/51, dated 31-7-1951.
From the Director of Public Instruction, Rc.No. 435 E2/52, dated 10-5-1952.
From the D.P.H. R.No. 83604 - E1 - (m) /51. dated 11.3.52.

ORDER:

The rules for admission to the Sanitary Inspector's Course and syllabus of training were first issued in 1930 and a number of amendments have been issued subsequently. The Government therefore felt that it is desirable to re-issue the rules embodying all the amendments so far made and they asked the Director of Public Health to submit a consolidated draft rules embodying all the amendments so far issued. The Director of Public Health accordingly has submitted a consolidated draft rules. The Government approve the rules with certain modifications. The rules as approved are appended to this order.

(sd).....
SECRETARY TO GOVERNMENT.

To the Director of Public Health.
" " Director of Medical Services.
" " Sanitary Engineer, through the Chief Engineer (P.H.).
" " Director, King Institute, Guindy, through the Director of Medical Services.
" " Principal, Medical College, Madras through the Director of Medical Services.
" " Principal, Stanley Medical College, through the Director of Medical Services.
" " Principal, Andhra Medical College, Vizakhapatnam, through the Director of Medical Services.
" " Director of Public Instruction.
" " Commissioner, Corporation of Madras through the Mayor.
" all President, District Boards.
" all Executive authorities of Municipalities, through Chairmen, Municipal Councils concerned.
" all Executive authorities of Major Panchayats through President, Panchayat Boards, through District Panchayat Officers.
" the Inspector of Local Boards.
" " Examiner of Local Fund Accounts.

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APPENDIX

Rules for admission to the Sanitary Inspector's Certificate Course, and Syllabus of Training (Revised).

Rules 1. Indian nationals are eligible for admission, provided:

(i) they are declared eligible for admission to University Courses of studies in Madras, (Andhra) or Annamalai University or they possess the minimum educational qualification prescribed in the schedule to the general rules for the Madras State and Subordinate Services, preference being given to those who have taken Mathematics, Botany, Physiology, Chemistry or Physics under the 1929 scheme of S.S.L.C. Examinations and the subjects included under the academic course in the 1948 scheme; or

(ii) they hold a completed S.S.L.C. and have obtained at the Public Examination not less than 35 per cent of the marks,

(a) in each of the subjects in group 'A' and in each of the two subjects in group 'C' if it relates to the pre-1929 scheme; or

(b) in each of the subjects in group 'A' and in the subject in group 'C' other than commercial subjects such as Short-hand, Typewriting, Book-keeping, etc., preference being given to those who have taken Algebra and Geometry, Botany, Physiology, Chemistry or Physics, if it relates to the 1929 scheme or

(c) in each of the five subjects of the academic course, if it relates to the 1948 reorganised scheme of Secondary Education; or

(iii) they have passed any other examination recognised as equivalent to or higher than (i) and (ii) above; or

(iv) they are members of the Public Health Establishment of Government or a local body and have been exempted by the Director or Public Health Madras, from the educational qualifications prescribed in clauses (i) to (iii) above.

Rule 2.

Applications of the candidates under Rule 1 must reach the Dean, Madras Medical College, Madras on or before the dates notified by him every year. The applications should be made on printed forms which will be furnished by the Dean, Madras Medical College on requisition. No application received after the date prescribed by the Dean will be accepted by him.

Application should be accompanied by the following documents:—

(a)(i) A treasury or bank receipt for Rs.2/-. This shall be credited to the Government of Madras under the head "XXVII-Medical-a-Madras Medical College Fees." It shall neither be refunded to the candidates under any circumstances nor adjusted towards the tuition fees in the case of candidates selected for admission;

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(ii) S.S.L.C. book or a statement of marks obtained at the Public Examination for the S.S.L.C. attested by the Head-Master of the School or by a Gazetted Government Officer. No application will be considered in the absence of the S.S.L.C. book or the statement of ~~makr~~ ~~makr~~ marks. Note:- In the case of candidates who have passed Intermediate or B.A., or B.Sc. in full, a copy of the University Examination marks obtained from the Registrar of the University should be enclosed. Candidates who have not passed Intermediate should submit their S.S.L.C. books or statement of marks. Similarly those who have passed only a part of B.A., or B.Sc., should submit their Intermediate marks;

(b) a certified copy of transfer or leaving certificate;
(c) a certified copy of conduct certificate.
(d) a certificate of revaccination;
(e) the order of the superior officer (if the applicant is in Public Service) granting permission to join the class;
(f) exemption certificate issued by the Director of Public Health, Madras in the case of candidates exempted under Rule 1(iv);
(g) if the applicant belongs to a socially and educationally backward class or scheduled caste or scheduled tribe, a certificate from the Revenue Authority stating ~~such~~ class, caste or tribe;

(h) a physical fitness certificate from a Registered Medical Practitioner not below the rank of an Assistant Surgeon;

(i) if he has served in any Public Service the record of his past service;

(j) a certificate of nativity issued by an officer of the Revenue Department not below the rank of a Deputy Tahsildar.

Note:-- (1) None of the documents (except the S.S.L.C.book) will be returned in the case of candidates selected.

(2) The physical fitness certificate should contain information on the following points:--

(i) Height, (ii) Weight, (iii) Chest measurement (on full inspiration and on full expiration) (iv) ~~fi~~ appearance (v) acuteness of vision and (vi) fitness for outdoor work.

Rule 3.

The College fees prescribed for the course of training is Rs.144/-. Selected candidates should pay the College fees of Rs.144/- into the Government Treasury to the credit of 'XXVII-Medical-a-Madras Medical College, Sanitary Inspector's Class Fees' and send the receipt to the Dean or Principal of the ~~x~~ respective Colleges to which they are admitted or at the Office of the respective College on or before the date prescribed by the Dean of the Medical College, Madras.

Rule 4.

Applications will be summarily rejected (a) if they are not accompanied by documents mentioned in Rule 2,

(b) if they are not received on or before the prescribed date, or

(c) if the applicants do not possess the qualifications prescribed in Rule1.

Candidates for admission to the Sanitary Inspector(s Course, who attempt to canvass, or to bring influence to bear on the Chairman or any member of the Selection Committee will be disqualified, Rejected applications will be returned to the applicants with the enclosures received, if duly stamped envelopes have been ~~xxx~~ sent along with their applications.

Rule 5.

A selected candidate who fails to join the classes within three days after the commencement of the session is liable to be refused admission and no claims for the refund of the fees will be entertained.

Rule 6.

Students will not ordinarily be granted leave during the working days of the session. No certificate of attendance will be granted to those who are deficient in attendance or have not made satisfactory progress in the classes and they will not be permitted to appear for the Examination.

Rule 7.

The course of Instruction will be offered in the Madras Medical College and the Stanley Medical College at Madras and at the Andhra Medical College at Visakhapatnam. The maximum strength of the Sanitary Inspector's Class is 100 for each of these 3 three Colleges.

Rule 8.

Selection Committee:- The selection Committee for the admission to the courses at ~~the~~ Madras Medical College and the Stanley Medical College, Madras and the Andhra Medical College, Visakhapatnam, shall consist of --

(a) Dean, Madras Medical College, Madras (chairman)
(b) Director of Public Health, Madras.
(c) Sanitary Engineer to the Government of Madras.
(d) Principal, Stanley Medical College, Madras.
(e) Principal, Andhra Medical College, Visakhapatnam.

Rule 9.

Reservation of seats.- (1) For Public Health personnel in public service - 40% of seats in the Santy. Inspector's Course at each College should be reserved for admission to the members of Public Health Establishment of the Government and local bodies. The Director of Public Health shall make the selection of candidates for these reserved seats granting exemption from educational qualifications, in deserving cases where necessary and his selection shall be final.

(2) For candidates from outside the Madras State:- Two seats shall be reserved for candidates from the United State of Travancore and Cochin and one seat for candidates from the State of Coorg. These candidates should possess the prescribed minimum educational qualification and they should ~~be~~ pay fees at the rate ordinarily payable by candidates belonging to the Madras State. The United

State and Coorg Governments may, if they so desire, make the selection of candidates from their States.

(3) For scheduled castes and tribes:- 15% of the number of seats available after deducting the numbers specified in sub-rules (1) and (2) shall be reserved to be filled by candidates belonging to the scheduled castes and tribes.

(4) For socially and educationally backward classes -
(a) 25% of the number of seats available after deducting the numbers specified in sub-rules (1) and (2) shall be reserved to be filled by candidates from socially and educationally backward classes.

(b) Christian converts from scheduled castes and tribes will also be included in the category of socially and educationally backward classes.

(5) The balance of seats available after the reservations and the balance of reserved seats for which candidates are not forthcoming will be available to all classes.

Rule 10.

Regional distribution of seats.- (a) For the purpose of the selection, the State of Madras shall be divided into four groups of Districts or regions as indicated below:-

Region I. Coastal Andhra (i.e.) the Districts of Srikakulam, Visakhapatnam, East Godavari, West Godavari, Krishna, Guntur, and Nellore.

RegionII. Rayalaseema (i.e.) the Districts of Anantapur, Bellary, Cuddapah, Kurnool and Chittoor.

Region III. Tamil (i.e.) the Districts of Madras, Chingleput, North and South Arcot, Salem, Coimbatore, Tanjore, Tiruchirapalli, Madurai, Ramanathapuram, Tirunelveli and the Nilgiris.

Region IV. West Coast (i.e.) the Districts of Malabar and South Kanara.

(b) The regional distribution shall be on the basis of the ratio of the population of each region to the total population of the State.

(c) Regional distribution of seats will be adopted in the case of seats reserved in clauses (3),(4) and (5) of rule 9.

(d) If in any region there is deficiency in the number selected against the reserved quota of that region in favour of a particular category, the candidates of the same category in the other region shall be considered for the selection.

Rule 11.

Course of Training and Examination.

The course of training for the award of Sanitary Inspector's Certificate shall consist of two parts comprising of theoretical and practical training according to the prescribed syllabus in the subjects as shown below:-

Part I. -- Subjects.

Subjects.	Hours. Marks.
1. Elementary and Applied Physiology.	50
2. Elementary Bacteriology and Parasitology.	20

Part II.

1. Sanitation and Hygiene.	100*
2. Preventive medicine including vaccination	40
3. Vital Statistics	10
4. Public Health Administration	30
5. First Aid.	20
6. Practical Field Training in Public Health	4 months.

* It should be a convention that at least 50 hours should be set apart for lectures by the Instructor in Sanitary Engineering.

The theoretical instruction shall be given in the Madras and Stanley Medical Colleges during the period July to March, and the practical training in vaccination in the months of January and February in Madras City in the case of students in Madras and Stanley Medical Colleges. The practical field training in Public Health will be given in the months of April and May in the areas prescribed for the purpose according to the prescribed syllabus.

Rule 12.

Candidates who have satisfactorily completed the Course of Instructions shall be required to undergo an Examination in the subjects of the course conducted by a Board of which the Director of Public Health, Madras, shall be the Chairman. The Examination shall be conducted in two parts and shall be held twice a year, Part I beginning on the 15th day of December, and 15th day of April and Part II beginning on the fourth Monday in June and first Monday in January respectively.

The Examination in Part I shall consist of a written paper of three hours duration and an oral examination in each subject. The distribution of marks and the minimum required for a pass shall be as follows:

Part I.

Subjects.		Maximum	Minimum
Elementary and Applied Physoilogy.	Written	100	
	Oral.	50	
		150	75.
Elementary Bacteriology and Parasitology.	Written	100	
	Oral.	50	
		150	75

Candidates shall take the examination in both the subjects in Part I at the first sitting. No candidate shall be admitted to Part II of the examination unless he has passed Part I of the Examination.

The examination in Part II shall consist of a written paper of three hours duration in each subject, practical examination in Sanitation and Hygiene and an oral examination in each subject and shall include evaluation of the records of practical training.

The distribution of marks and the minimum required for a pass shall be as follows:

Part II.

Subjects.		Maximum	Minimum
1. Sanitation and Hygiene.	Written.	100	
Practical (Special Report)		50	
	Oral.	50	
		200	100
2. Preventive Medicine including vaccination and First Aid.	Written	100	
	Oral	50	
		150	75
3. Public Health Administration including Vital Statistics. Records of Practical Training.	Written	100	
		50	
	Oral	50	
		200	100

Candidates shall take the examination in all the subjects in Part II at the first sitting.

Candidates who pass both parts of examination at the first sitting and who obtain not less than two thirds of the aggregate marks of both Parts together shall be declared to have passed in the First Class and candidates who obtain not less than 75% of the marks in any subject shall be declared to have passed in that subject with distinction.

Candidates obtaining less than two thirds of aggregate but not less than 50% in each subject in Parts I and II shall be declared to have passed the Examination in the Second Class. All other candidates shall be deemed to have failed.

Rule 13.

The Examination fee is Rs.20/- for the whole examination and Rs.10/- for each subject in Part I and Rs.30/- for the whole examination and Rs.10/- for each subject in Part II.

Rule 14. Candidates who pass the above examination shall be designated as Qualified Sanitary Inspectors and will be given a Government Certificate signed by the Chairman, Board of Examiners. The certificate will bear the signature of the candidate and contain a description of his marks of identification.

Rule 15.

Candidates who fail in any of the subjects mentioned in Rule 12 above may appear privately for the subject or subjects in which they fail, at the next or subsequent examination on payment of the usual examination fee for each subject.

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The following is the copy of the Sanitary Inspector's Certificate:-

Crest — (on the obverse of the Certificate)

GOVERNMENT OF MADRAS

Sanitary Inspector's Certificate.

This is to certify that ..... has satisfactorily completed the Courses of the theoretical and practical training and has passed Part I and Part II of the Examinations prescribed for the Sanitary Inspector's Course in the.....Class.

He has gained distinction in.....

MADRAS
Dated

Chairman,
Board of Examiners.

Marks of Identification.

1.
2.

Signature of candidate.

Signatur
Designation
(Of the officer recording the marks of identifications).

Rule 15.

Candidates who fail in any of the subjects mentioned in Rule 12 above may appear privately for the subject or subjects in which they fail, at the next or subsequent examination on payment of the usual examination fee for each subject.

Rule 16.

Syllabus of training.

Candidates for the qualification of Sanitary Inspector shall undergo a course of study as shown below:-

Part I.

1. Elementary and applied Physiology (50 hours). The Elementary principles of Physiology according to the following syllabus:-

Introduction: Scope and aims of Physiology, general structure of the body, general survey of the human skeleton and the joints, brief descriptions of the structure and functions of the varieties of muscle; structure and functions of nerve fibres.

Blood: Description of the formed elements and their functions, clotting of blood, composition of plasma.

Circulation Structure of the heart; heart beat, cardiac impulse, sounds of the hart, course of the general circulation of blood; structure of the blood vessels; blood pressure, pulse, velocity of blood; nervous control of the heart and blood vessels, lymph and its circulation.

Rem

Respiration: Structure of the trachea and lungs, respiratory movements, quantity of air respired, exchange of gases in lungs and tissues, regulation of respiration, asphyxia.

Digestion and absorption of food.

Food stuffs, structure of the different parts of alimentary canal, glands and secretions, the digestive juices, their composition and action, structure and functions of the liver, absorption of food. An elementary knowledge of metabolism and diet.

Structure and functions of the Spleen.

Excretion: Structure of the kidney, composition and formation of urine, structure and functions of the skin.

Animal Heat. Temperature of the body, loss of heat, source of heat, distribution of heat, regulation of heat.

Nervous system: Afferent and efferent nerves; structure and functions of the spinal cord and medulla, structure and functions of the cerebrum, structure and functions of the cerebellum.

Special Senses: A very elementary knowledge of the special organs.

Internal Secretions: An elementary knowledge of the more important internal secretions.

2. Elementary Bacteriology and Parasitology (20 Hours).

Elementary Bacteriology: i) Micro-organisms - their structure — identification - staining - spore formation - motility - reproduction - food growth - culture --media-aerobes and anaerobes.

(ii) Disease producing organisms - Pathogenicity and virulence - infection - results of - incubation - infectivity - sources of infection - mode of spread of and channels of infection in communicable diseases.

(iii) Immunity -- Rationale of immunological process in the body - artificial immunity - Active and passive - immunity tests - vaccines and sera - their varieties and uses in public health work. Preparation of vaccines and sera with special reference to vaccine lymph, cholera vaccine, plague vaccine, typhoid vaccine and rabies vaccine - bacteriophage.

(iv) Microorganisms in relation to human environment - soil bacteria - nitrogen cycle - water and its purification - sewage purification - pasteurisation - food preservation - Food poisoning - bacteria in air - sterilization.

(v) Isolation of micro organisms . methods - collection of - specimens for examination in cholera, typhoid, dysentery, malaria, plague, diphtheria, collection of water, milk and food samples for bacteriological examination.

(vi) Micro organisms - destruction of - effect of environment moisture , food, temperature air, etc., disinfection, sterilisation, antisepsis.

Elementary Parasitology:: Nature of parasites - ecto and endo. Parasites of importance in Public Health. Protozoa-Malarial parasite - Amoeba Metaxoa-worms common cestodes, nematodes, and Trematodes - their life cycle and modes of spread.

Insects: Cyclops, Acarine, Ticks, Lice, Fleas, Flies and

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Mosquitoes. Life history of important insects and their relation to diseases: Insect control measures -- Fumigation, DDT., etc.

PART II

1. Sanitation and Hygiene. (100 Hours).

i) Introduction: Scope of Public Health - Hygiene and Sanitation - Modern Public Health Practice - The Health Officer and his Subordinate - The Sanitary Engineer and his Subordinates.

ii) General Engineering:

Basic Elementary principles of surveying - levelling, drawing, estimating and of the general nature of building materials and building construction.

iii) Water:

Purposes of requirements. Sources of supply - Their characteristics - Lakes, tanks, wells (shallow and deep), springs, tube wells, borewells; conservation of sources, collection, storage and distribution - general principles. Impurities in water, physical, chemical bacterial, parasitic. Effects on health - diseases conveyed by water. Collection and examination of water samples and interpretation of results. Purification of water - Filtration and infiltration gallery; chemical and physical methods - softening; disinfection.

iv) Air and Ventilation:

Air-composition of - importance to health; pollution of air, sources of - impurities in air and their effect on health. Physiological basis of ventilation - effect on health of humidity, temperature, air movement, altitude and pressure conditions. Standards of ventilation, their significance and application - methods of ventilation, air conditioning. Examination of ventilation of buildings - Katathermometer; cooling and heating.

v) Cleansing:

Wastes - difference kinds of - sources - quantities Rubbish collection - dust bins - removal rubbish carts - patterns - lorries - disposal - methods - sea - controlled dumping - Incineration - Manure pits - personnel and organisation.

Excreta: Collection - latrines - different types - removal implements - carts - disposal methods - trenching - composting, incineration, septic tanks - pail depots - personnel and organisation.

Liquid filth: Collection - cesspools - removal - sewage carts - open drains - disposal leaching cess-pool, soak pit land irrigation dilution - sewage, sewerage system - plumbing and house fittings - Trap etc., sewers - ventilation and cleansing - disposal methods of sewage and trade wastes - dilution - land disposal, artificial biological methods - cleansing and its bearing on health - soil pollution.

vi) Disposal of the dead:

Various methods of disposal - advantages and disadvantages - sites and soils for burning and burial grounds - disposal of carcasses.

Vii) Nutrition:

Food - functions of - proximate principles - their role in nutrition - nutritive value of the common food articles - diets - balanced diet - digestibility - effects of cooking - food and health - diseases due to food - excess - deficiency - deficiency diseases - infectious diseases food poisoning - parasitic diseases- Nutrition and diet surveys - preservation and processing of foods, pasteurisation, refrigeration, canning, etc. food sanitation - dairy farms, slaughter houses, markets eating houses, hotels, restaurants, bakeries, aerated water factories, sweet shops etc. - examination of food articles.

viii) Personal Hygiene:

Habits and customs - their relation to health - cleanliness - clothing - exercise - sleep, care of special organs - public baths - swimming pool sanitation - parks and play grounds.

ix) Camp Sanitation:

Fairs and Festivals - labour camps - other temporary congregations - need for adequate public health arrangements, infectious diseases - modes of spread in congregations, detection, isolation, disinfection, immunoprophylaxis. Lay-out- accommodation - water supply - sanitary conveniences - wastes collection and disposal - control of food establishments - Lighting control of animals.

x) Housing:

Soils - their suitability and healthiness for various purposes - sites - for different purposes - sanitary requirements of buildings in general and special requirements of :— 1. Residence, 2. Schools, 3. Industrial buildings, 4. Public halls and places of public entertainment and special buildings connected with food trade. Scrutiny of plans - building regulations - application of village and town planning and extensions - civic surveys - soils and buildings in relation to health.

xi) Industries and trades:

Sanitation of industries, location, ventilation, water supply, sanitary convenience, lighting etc., measures for the abatement of nuisance, dust, smoke, fumes, safety measures etc., occupational diseases and their control, effects of trades and industries on health.

xii) Engineering in relation to disease control:

Rodent control-rat elimination and destruction - fumigation, rat-proof constructin - fly control - antifly measures - destruction of flies - fly traps - poisons - prevention of breeding - manure-collection and storage - protection of food from flies - mosquito control - life history and habits of mosquitoes - malaria surveys - recurrent, naturalistic and permanent methods of controlling larva and adult mosquitoes - design of anti-malaria drains in various circumstances - canalisation of flushing - river training - cleaning - sub-soil drainage - filling - adult spray killing methods - residual spray insecticides, preparation of larvicides and insecticides - screening of houses - relation between engineering, irrigation and malaria - malaria control for engineering projects etc. - filarial surveys.- drainage in relation to filariasis, aedes control.

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xiii) Intramural demonstrations and extra mural excursions to supplement and illustrate the above theoretical courses will be arranged as and when necessary.

2. Preventive Medicine including Vaccination (40 Hours).

1) Communicable diseases - general principles - disease agents - sources of infection - carriers - contacts, missed cases - modes of transmission and channels of infection - incubation and infectivity periods - epidemics, endemics, pandemics - preventive measures in general, notification, investigation, isolation, quarantine, disinfection, concurrent and terminal details of various methods - disinfectants and their values, practical methods of disinfection and application of field works - disinfectants and their values, practical methods of disinfection and application of field works - disinfections immunoprophylaxis - managements of an epidemic campaign.

2) Special features of spread and control of common communicable diseases: (a) Diseases transmitted by Ingestion. Cholera, Typhoid, Dysenteries (Bacillary and Amoebic) Brucellosis helminthic infections - food poisoning.

(b) Diseases transmitted through inhalation, Smallpox, chickenpox, measles, diphtheria, mumps, septic sore throat, tuberculosis, whooping cough, influenza, pneumonia, Meningitis, Poliomyelitis, Encephalitis.

(c) Insect borne diseases - Malaria, filariasis, yellow fever, dengue, relapsing fever, typhus, plague, rat-bite fever.

(d) Animal diseases - anthrax, rabies.

(e) Diseases transmitted through contact- leprosy, syphilis, gonorrhoea, scabies.

3) Vital Statistics (10 Hours).

Importance and use of vital statistics. Registration - objects - machinery-errors, checking.

Population census, estimates of population. Notification - records, use of. Rates - birth, death, infantile mortality - maternal mortality and morbidity rates significance.

4) Public Health Administration: (30 Hours).

1. Public Health - Provincial - The Ministry of Health - The Director of Public Health and his staff - The Director of Medical Services - The Public Health and Medical Departments - Relationship between the two - Relation to other departments, Revenue, Agriculture, Animal husbandry, Engineering, Education, etc - Responsibility of the State and various local bodies in matter of Public Health - Local bodies - District Boards, Municipalities, panchayats - their responsibilities - Financial obligation - Public Health staff in these areas - their duties - Health education - different methods and values - Dominion responsibility in Public Health - Port quarantine.

2. Health Units.

83 15/10.

3. Public Health Administration - Details, organisation, duties and powers - authority for such powers , public health laws, rules and bye-laws, and procedure in respect of - water supply, food control (including adulteration), Housing (Building construction, town-planning, cinemas, tenement, lodging houses overcrowding), cleansing - epidemic control (vaccination) camp sanitation (fairs and festivals)

4. Maternity and Child Welfare: Infantile and maternal morbidity and mortality - causes and their significance - maternity and child welfare schemes - organisation - personnel, duties - prenatal, intranatal, postnatal and preschool work,

5. School Health Services - school hygiene, midday meals - play-grounds - health education of pupils.

6. Industrial Hygiene: Industrial area - residential area - licensible trades - factories - mines.

7. Office routine: Common and special Registers and records.

5) First Aid (20 Hours).

A course of simple instruction, and practical training in connection with common accidents, injuries and emergencies, such as haemorrhage, fractures of bones, dislocation of joints, loss of consciousness, asphyxiation, poisoning, bites or stings of venomous animals and insects and a short course in basic principles of home nursing and treatment of communicable diseases, and minor ailments.

6) Practical field training in Public Health:

This training is designed to give the candidate actual practical experience in the field of all health activities comprised in the five subjects in Part II of the curriculum.

The first portion covers practical training in vaccination in the City of Madras in the case of students in the Madras Medical College and the Stanley Medical College and in Visakhapatnam Municipality in the case of students of the Andhra Medical College, for a period of two months in January and February. During this period each candidate will be required to perform at least 100 vaccine operations, verify the results of the cases vaccinated by him and make him self-conversant with the records of procedure relating to vaccination, under the supervision of the Health Officer, Corporation of Madras or an officer designated by him in the case of Madras and under the supervision of the Municipal Health Officer, Visakhapatnam in the case of those trained in the Andhra Medical College. At the end of the training each candidate shall obtain a certificate in the form below from the Health Officer and produce the same before the Professor of Hygiene of the Medical College concerned.

Certificate of practical training in Vaccination

This is to certify that.....has satisfactorily undergone the ~~practical training~~ practical training in Vaccination as prescribed and has made himself conversant with the technique and procedure.

Duration of Training. — January and February, 19 .

Number of Primary Vaccinations performed by the Canddate

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No. of revaccinations performed by the candidate.

No. of vaccine operations, verified by the candidate.

Countersigned. Signature.

Health Officer.....

Designation.

The second portion of the practical field training in Public Health shall extend over a period of two months from 1st April to 31st May as follows:

Madras Students:-

Under Health Officer, Corporation of Madras	15 days.
Health Office , Health Unit, Poonamallee.	15 days.
District Health Officer, Chingleput.	15 days.
Health Officer of a District Headquarters Municipality.	15 days.

Visakhapatnam Students.-

Under Municipal Health Officer, Visakhapatnam.	30 days.
Under District Health Officer, -do-	30 days.

Of this, 15 days will be in Health Unit as soon as one is opened in Visakhapatnam District.

The training in each of these areas shall include:--

a) Lectures by the Health Officer concerned on the Public Health Administration and practice in that local area.

b) Demonstrations of common amenities and services like water supplies, water sampling, milk distribution, midday meals in institutions, housing schemes, labour colonies, industries, maternity and child welfare centres, markets, slaughterhouses, public sanitary conveniences, waste disposal, compost making, manure pits, infectious diseases control, tuberculosis, clinics, leprosy clinics, fumigation, beggar homes and any other items of local public Health ~~officer~~ interest. The Health Officer concerned shall arrange that the students are actually taken to these places or institutions and the demonstrations are given at the spot; and

c) Assignments and exercises to the candidates as detailed below:

CITY OF MADRAS AND VISAKHAPATNAM MUNICIPALITY:

1. Registration of vital statistics at the Registrar's office - detection of events - preparation of returns.

2. House inspections.

3. Inspection and report on fitness for certificates under Section 26, 33, 38 of the Madras Public Health Act.

4. Tenement inspection and report.

5. Lodging house inspection and report.

6. School sanitation - inspection and report.

7. Inspection and report on a cinema or any other places of public entertainment.

8. Food sampling.

9. Inspection and report on two places connected with food trade.

10. Nuisance complaint - inspection and report.

11. Report of fitness for licensing under the Madras City Municipality Act, Sections, 279, 280, 282, 285(c), 287, 288, 289 and 304; and corresponding sections of the Madras District Municipalities Act.

12. Inspection and report on the collection and disposal of waste in the specified area.

13. Report on the Public Sanitary conveniences in an area.

14. Concurrent and terminal disinfection in at least two cases of infectious diseases.

Preventive Inoculation:

District Municipality (other than Visakhapatnam).

1. Registration of vital statistics at a Registrar's Office detection of events - Preparation of returns.

2. Collection of water samples.

3. Buildings - Application - Inspection and report.

4. Building - Inspection after completion and report.

5. Inspection and report on places with reference to Sections 26, 33 and 103 of the Madras Public Health Act.

6. Housing Inspections.

7. Tenement - Inspection and report.

8. Lodging house - Inspection and report.

9. Inspection and report on 2 places connected with food trade.

10. Cattle and cow sheds -- inspection and report.

11. Inspection and report on a cinema or a place of public entertainment.

12. Inspection and report on fitness for licensing under the Madras District Municipalities Act, Sections 245, 249, 250, 258, 262, 269 and 270 (e).

13. Concurrent and terminal disinfection in two cases of infectious diseases. Preventive inoculation.

14. Routine work records and procedure relating to vaccination.

15. Court procedure.

HEALTH UNIT.

1. Vital Statistics - Registration in a village, Births, and Deaths, ~~Deaths~~ detections - enquiry into the causes of death.

2. Vaccination - unprotected children and unprotected persons registers - verification of vaccinated cases.

3. Use of Horrocks apparatus and chlorination of two wells.

4. Inspection of water supply in a village and report.

5. Inspection of sanitary conveniences in a village and report.

6. Mosquito prevalance - inspection and report - collection and identification of mosquitoes-adults and larva - anti-mosquito measures.

7. Disinfection - concurrent and terminal - inoculation - cholera - taking of culture.

8. Rat dissection - taking a spleen smear.

9. Fairs and festivals or camps if any - Inspection and report.

10. House Inspection of four houses.

11. One day with the Sanitary Inspector of the Panchayat concerned in his routine duties - Sanitary Inspector's Office records.

12. Inspection and Report on burial grounds in a village - selection of sites for new burial grounds.

13. One day with the Health Inspector of the Health Unit for routine work.

Chingleput District Rural Area (for Madras students).
Visakhapatnam District Rural Area (for Visakhapatnam Students).

1. Vital Statistics - Registration in a village.- Births and deaths, detections - enquiry into the causes of death.

2. Inspection of a village water supply and report selection of ~~xxx~~ sites for wells in village and report.

3. Horrocks apparatus - use of - chlorination of two wells.

4. Inspection of waste collection, removal and disposal in a village.

5. Inspection of Sanitary conveniences in a village and report Selection in sites for sanitary ~~xxx~~ conveniences in a village and report.

6. Fairs and Festivals or camps, if any - inspection and report.

7. One day with the Health Inspector in his routine, out-door work - Health Inspector's Office routine and records.

(TRUE COPY)

SUPERINTENDENT,
MADRAS RECORD OFFICE.

sps/11/10 15/10.